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# NOTICE OF ALLOWANCE AND FEE(S) DUE

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12/01/2010

Weaver Austin Villeneuve & Sampson LLP - IGT Attn: IGT P.O. Box 70250 Oakland, CA 94612-0250 EXAMINER

KIM, ANDREW

ART UNIT PAPER NUMBER

3716

DATE MAILED: 12/01/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/810,166	03/26/2004	Binh T. Nguyen	IGT1P104/P000897-001	8341

TITLE OF INVENTION: UNIVERSAL GAMING ENGINE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	03/01/2011

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

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CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)  79646 7590 12/01/2010 Weaver Austin Villeneuve & Sampson LLP - IGT Attn: IGT P.O. Box 70250				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.  Certificate of Mailing or Transmission  I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.			
							(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENT	OR	ATTO	DRNEY DOCKET NO.	CONFIRMATION NO.
10/810,166 TITLE OF INVENTION	03/26/2004 I: UNIVERSAL GAMIN	NG ENGINE	Binh T. Nguyen		IGT	1P104/P000897-001	8341
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DU	Æ	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300		\$0	\$1810	03/01/2011
EXAM	IINER	ART UNIT	CLASS-SUBCLASS				
KIM, Al	NDREW	3716	463-016000	_			
"Fee Address" ind PTO/SB/47; Rev 03-( Number is required.  3. ASSIGNEE NAME A PLEASE NOTE: Uni	ND RESIDENCE DATA less an assignee is ident h in 37 CFR 3.11. Com	" Indication form ned. Use of a Customer A TO BE PRINTED ON	or agents OR, altern  (2) the name of a si registered attorney 2 registered patent a listed, no name will  THE PATENT (print or data will appear on the T a substitute for filing	ngle or ag attorn be p type e pat an a	firm (having as a mem gent) and the names of neys or agents. If no nat rrinted.	ber a 2	cument has been filed for
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4a. The following fee(s) are submitted:  ☐ Issue Fee ☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies			<ul> <li>4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)</li> <li>A check is enclosed.</li> <li>Payment by credit card. Form PTO-2038 is attached.</li> <li>The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).</li> </ul>				
5. Change in Entity Sta  a. Applicant claim	tus (from status indicate as SMALL ENTITY state		☐ b. Applicant is no	long	er claiming SMALL EN	TITY status. See 37 CF	R 1.27(g)(2).
NOTE: The Issue Fee an interest as shown by the	d Publication Fee (if req records of the United Sta	uired) will not be accepte ates Patent and Trademarl	ed from anyone other that k Office.	an th	e applicant; a registered	attorney or agent; or the	e assignee or other party in
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10/810,166	03/26/2004	Binh T. Nguyen	IGT1P104/P000897-001	8341	
79646 75	590 12/01/2010		EXAM	INER	
Weaver Austin Villeneuve & Sampson LLP - IGT			KIM, ANDREW		
Attn: IGT	•		ART UNIT	PAPER NUMBER	
P.O. Box 70250 Oakland, CA 9461	2-0250		3716 DATE MAILED: 12/01/201	0	

## Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 773 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 773 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)	
Notice of Allowability	10/810,166 <b>Examiner</b>	NGUYEN ET AL.  Art Unit	
•			
	ANDREW KIM	3716	
The MAILING DATE of this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED or other appropriate comming the committee of the comm	in this application. If not included nunication will be mailed in due cours	
1. $\boxtimes$ This communication is responsive to <u>RCE filed 11/8/2010</u> .			
2. X The allowed claim(s) is/are <u>1-5, 7, 10-17, 19-25, 27, 30-33</u>	3, 35, and 38-40.		
<ul> <li>3.  Acknowledgment is made of a claim for foreign priority u</li> <li>a)  All b)  Some* c)  None of the:</li> <li>1.  Certified copies of the priority documents have</li> </ul>	.,,	) or (f).	
2. ☐ Certified copies of the priority documents have		ion No	
3. ☐ Copies of the certified copies of the priority do	• •		om the
International Bureau (PCT Rule 17.2(a)).	rouniento nave been receiv	od III tillo Hational stage application III	
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	MENT of this application.		
<ol> <li>A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which giv</li> </ol>			E OF
5. CORRECTED DRAWINGS ( as "replacement sheets") must	st be submitted.		
(a) ☐ including changes required by the Notice of Draftspers	son's Patent Drawing Revi	ew ( PTO-948) attached	
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date			
<ul><li>(b) ☐ including changes required by the attached Examiner' Paper No./Mail Date</li></ul>	s Amendment / Comment	or in the Office action of	
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			) of
<ol> <li>DEPOSIT OF and/or INFORMATION about the depo- attached Examiner's comment regarding REQUIREMENT</li> </ol>			he
Attachment(s)	5 D Nation of	w Common I. Do Com I. Anna Proc Com	
1. Notice of References Cited (PTO-892)	_	nformal Patent Application	
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	Paper No	Summary (PTO-413), b./Mail Date	
3. Information Disclosure Statements (PTO/SB/08),	7. 🛛 Examiner	s Amendment/Comment	
Paper No./Mail Date <u>See Continuation Sheet</u> 4. ☐ Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner	s Statement of Reasons for Allowanc	е
of Biological Material	9.		
	/Dmitry Suho		
	•	atent Examiner, Art Unit 3716	

Continuation of Attachment(s) 3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date: 11/8/2010, 11/18/2010.

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### **EXAMINER'S AMENDMENT**

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Christian Scholz on July  $6^{th}$ , 2010.

The application has been amended as follows:

1. (Currently Amended) A gaming machine adapted for accepting wagers and granting monetary awards, comprising:

a master gaming controller adapted to control game play and authorize payouts and other awards on said gaming machine, said master gaming controller located in a main cabinet of [[the]] <u>said</u> gaming machine, said main cabinet having a first communications interface having a first configuration or arrangement;

a top box that contains a plurality of peripheral devices and a second communications interface having a second configuration or arrangement, [[the]] <u>said</u> top box adapted to be removable from said gaming machine and interchangeable with other top boxes also so adapted; and

a modular universal gaming engine located outside said main cabinet and said top box, said modular universal gaming engine having at least one dedicated processing unit, at least one

associated storage device, a third communications interface adapted to connect with said first communications interface, and a fourth communications interface adapted to connect with said second communications interface, wherein said modular universal gaming engine is adapted to control a substantial portion of said plurality of peripheral devices contained by said top box, wherein said modular universal gaming engine is located substantially behind said main cabinet, said top box, or said main cabinet and said top box.

- 2. (Previously Presented) The gaming machine of claim 1, wherein said top box is adapted to detach from said main cabinet.
- 3. (Previously Presented) The gaming machine of claim 2, wherein said modular universal gaming engine is adapted to remain attached to said gaming machine despite any detachment of said top box.
- 4. (Previously Presented) The gaming machine of claim 1, wherein said modular universal gaming engine is interposed between said main cabinet and said top box, and said top box and said modular universal gaming engine are adapted to detach from said main cabinet as a combined unit.
- 5. (Previously Presented) The gaming machine of claim 4, wherein said top box is adapted to detach from said modular universal gaming engine.

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6. (Canceled)

7. (Previously Presented) The gaming machine of claim 1, wherein said modular universal

gaming engine is adapted to control all peripheral devices on said top box.

8-9. (Canceled)

10. (Currently Amended) The gaming machine of claim 1, wherein said modular universal

gaming engine is adapted to control all of said plurality of peripheral devices on [[the]] said top

box.

11. (Previously Presented) The gaming machine of claim 1, wherein said modular universal

gaming engine contains a power supply adapted to provide power to said top box.

12. (Currently Amended) The gaming machine of claim 1, wherein said modular universal

gaming engine comprises a communications buffer between said master gaming controller and

[[a]] said substantial portion of said plurality of peripheral devices on said top box.

13. (Currently Amended) The gaming machine of claim 1, wherein said at least one dedicated

processing unit comprises a central processing unit residing on said modular universal gaming

engine.

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14. (Previously Presented) The gaming machine of claim 13, wherein said central processing

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unit contains resident operating system code adapted to control functions associated with said

modular universal gaming engine and facilitate communications between said modular universal

gaming engine and said master gaming controller.

15. (Previously Presented) The gaming machine of claim 14, wherein said resident operating

system code is specifically approved for use in said gaming machine by a gaming jurisdiction.

16. (Previously Presented) The gaming machine of claim 14, wherein said resident operating

system code is selected from the group of operating system codes consisting of Windows CE

Embedded, Windows XP, Linux, MontaVista Linux, and QNX.

17. (Original) The gaming machine of claim 1, wherein said plurality of peripheral devices

comprises one or more devices selected from the group consisting of a video display unit, a

speaker, an audio amplifier, a light, a touch screen, an input button, a coin acceptor, a bill

acceptor, a ticket acceptor, a coin hopper, a coin dispenser, a ticket printer, a card reader and a

mechanical motor.

18. (Canceled)

- 19. (Previously Presented) The gaming machine of claim 1, wherein said second configuration or arrangement comprises a standardized layout of physical connections that is consistent across a plurality of other modular universal gaming engines.
- 20. (Original) The gaming machine of claim 19, wherein said standardized layout of physical connections comprises a grid of ported connections.
- 21. (Currently Amended) The gaming machine of claim 19, wherein said standardized layout of physical connections comprises a power connection adapted to provide power across a mating of [[the]] <u>said</u> second communications interface and [[the]] <u>said</u> fourth communications interface.
- 22. (Currently Amended) A gaming machine adapted for accepting wagers and granting monetary awards, comprising:
- a processing means for controlling game play and authorizing payouts and other awards on said gaming machine, said processing means located in a main cabinet of [[the]] <u>said</u> gaming machine and communicatively connected with a first communications interface located on [[the]] <u>said</u> main cabinet, said first communications interface having a first configuration or arrangement;
- a housing means for housing a plurality of peripheral devices associated with said gaming machine and a second communications interface, said housing means being removable from said main cabinet and interchangeable with other similar housing means also so adapted, said plurality of peripheral devices communicatively connected with said second communications

interface, and said second communications interface having a second configuration or arrangement; and

a modular universal engine means for controlling a substantial portion of said plurality of peripheral devices housed by said housing means, said modular universal engine means located outside said main cabinet and said housing means, said modular universal engine means including a third communications interface and a fourth communications interface, said third communications interface adapted to connect with said first communications interface, and said fourth communications interface adapted to connect with said second communications interface, wherein said modular universal engine means are located substantially behind said main cabinet, said housing means, or said main cabinet and said housing means.

23. (Currently Amended) A system of gaming machines adapted for accepting wagers and granting monetary awards, comprising:

at least one computer server, said at least one computer server having a program adapted to provide data regarding individual modular universal gaming engines, top boxes of gaming machines, or both; and

a plurality of gaming machines in communication with said at least one computer server, wherein at least one first gaming machine of said plurality of gaming machines comprises:

a master gaming controller adapted to control game play and authorize payouts and other awards on said <u>at least one first</u> gaming machine, said master gaming controller located in a main cabinet of [[the]] <u>said at least one first</u> gaming machine and

communicatively connected with a first communications interface located on said main cabinet, said first communications interface having a first configuration or arrangement;

a top box, wherein said top box contains a plurality of peripheral devices and a second communications interface, is adapted to be removable from said <u>at least one first</u> gaming machine, and is interchangeable with other top boxes also so adapted, wherein said plurality of peripheral devices are communicatively connected with said second communications interface, said second communications interface having a second configuration or arrangement; and

a modular universal gaming engine located outside said main cabinet and said top box, said modular universal gaming engine having at least one dedicated processing unit, at least one associated storage device, a third communications interface, and a fourth communications interface, wherein said third communications interface is connected with said first communications interface, said fourth communications interface is connected with said second communications interface, and said modular universal gaming engine is adapted to control a substantial portion of said plurality of peripheral devices contained by said removable and interchangeable top box, wherein said top box is removable and interchangeable, and wherein said modular universal gaming engine is located substantially behind said main cabinet, said top box, or said main cabinet and said top box.

24. (Currently Amended) The system of gaming machines of claim 23, wherein said data regarding individual universal gaming engines, top boxes of gaming machines, or both comprises

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one or more informational items for such devices, said one or more informational items selected

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from the group consisting of current location, past locations, time in service, number of retrofits,

repair status, included peripheral devices, peripheral device configurations and overall thematic

nature of said device.

25. (Previously Presented) The system of gaming machines of claim 23, wherein said top box is

adapted to detach from said main cabinet.

26. (Canceled)

27. (Currently Amended) The system of gaming machines of claim 23, wherein said modular

universal gaming engine is adapted to control [[a]] said substantial portion of said plurality of

peripheral devices contained by said top box.

28-29. (Canceled)

30. (Currently Amended) The system of gaming machines of claim 23, wherein said modular

universal gaming engine is adapted to control all of said plurality of peripheral devices contained

by said top box of said at least one first gaming machine.

31. (Currently Amended) The system of gaming machines of claim 23, wherein said at least one

dedicated processing unit comprises a central processing unit residing on said modular universal

gaming engine, said central processing unit containing resident operating system code adapted to control functions associated with said modular universal gaming engine and facilitate communications between said modular universal gaming engine and said master gaming controller, wherein said resident operating system code is specifically approved for use in said at least one first gaming machine by a gaming jurisdiction.

- 32. (Previously Presented) The system of gaming machines of claim 23, wherein said first configuration or arrangement comprises a standardized layout of physical connections that is consistent across a plurality of other modular universal gaming engines.
- 33. (Currently Amended) A method of replacing a top box of a gaming machine adapted for accepting wagers and granting monetary awards, the method comprising:

providing [[a]] said gaming machine having

a master gaming controller adapted to control game play and authorize payouts and other awards on said gaming machine, said master gaming controller located in a main cabinet of [[the]] <u>said</u> gaming machine and communicatively connected with a first communications interface located on [[the]] <u>said</u> main cabinet, said first communications interface having a first configuration or arrangement,

[[a]] <u>said</u> top box that contains a plurality of peripheral devices and a second communications interface, said top box adapted to be removable from said gaming machine and interchangeable with other top boxes also so adapted, said second communications interface having a second configuration or arrangement, and

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a modular universal gaming engine located outside said main cabinet and said top box, said modular universal gaming engine having at least one dedicated processing unit, at least one associated storage device, a third communications interface, and a fourth communications interface, wherein said modular universal gaming engine is adapted to control a substantial portion of said plurality of peripheral devices on said top box, said third communications interface is connected with said first communications interface, and said fourth communications interface is connected with said second communications interface, wherein said modular universal gaming engine is located substantially behind said main cabinet, said top box, or said main cabinet and said top box; removing said top box from said gaming machine; and installing a second top box on said gaming machine.

- 34. (Canceled)
- 35. (Currently Amended) The method of claim 33, wherein said modular universal gaming engine is adapted to control [[a]] <u>said</u> substantial portion of said plurality of peripheral devices contained by said top box.
- 36-37. (Canceled)
- 38. (Currently Amended) A method of changing a game theme on a gaming machine adapted for accepting wagers and granting monetary awards, [[the]] said method comprising:

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providing [[a]] said gaming machine having

a master gaming controller adapted to control game play and authorize payouts and other awards on said gaming machine, said master gaming controller located in a main cabinet of [[the]] said gaming machine and communicatively connected with a first communications interface located on said main cabinet, said first communications interface having a first configuration or arrangement,

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a top box that contains a plurality of peripheral devices and a second communications interface, said top box adapted to be removable from said gaming machine and interchangeable with other top boxes also so adapted, said second communications interface having a second configuration or arrangement, and

a modular universal gaming engine located outside said main cabinet and said top box, said modular universal gaming engine having at least one dedicated processing unit, at least one associated storage device, a third communications interface, and a fourth communications interface, wherein said modular universal gaming engine is adapted to control a substantial portion of said plurality of peripheral devices on said removable and interchangeable top box, where said top box is removable and interchangeable, said third communications interface is adapted to connect with said first communications interface, and said fourth communications interface is adapted to connect with said second communications interface, wherein said modular universal gaming engine is located substantially behind said main cabinet, said top box, or said main cabinet and said top box;

removing said top box from said gaming machine, said top box comprising one or more items dedicated toward a first game theme; and

installing a second top box on said gaming machine, said second top box comprising one or more items dedicated toward a second game theme different from said first game theme.

- 39. (Previously Presented) The gaming machine of claim 7 wherein said peripheral devices contained by said top box include all of the following: a video display, one or more speakers, a plurality of bulbs, a separate progressive jackpot display, and a ticket printer.
- 40. (Currently Amended) The gaming machine of claim 39 wherein said video display has a video controller, said plurality of bulbs [[have]] has a separate light controller, said separate progressive jackpot display has its own specialized controller, and said ticket printer has a printer controller.

The following is an examiner's statement of reasons for allowance:

A thorough search for prior art fails to disclose any reference or references, which taken alone or in combination, teach or suggest, in combination with the other limitations, "a modular universal gaming engine located substantially behind said main cabinet, said top box, or said main cabinet and said top box" in combination with "four communications interfaces" in combination with "said modular universal gaming engine is adapted to control a substantial portion of said plurality of peripheral devices contained by said top box."

The closest prior art is Mastera et al. (US Pat. No. 6,314,666 B1). Mastera discloses a gaming machine with main and secondary displays with a secondary display controlled by a second controller within the top box. However, Mastera structurally and functionally lacks the

means for providing a modular universal gaming engine located substantially behind said main cabinet, said top box, or said main cabinet and said top box. For at least these reasons, claims 1, 22, 23, 33 and 38 and the claims dependent thereon are allowed over Mastera or any other prior art of record, taken alone or in combination.

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ANDREW KIM whose telephone number is (571)272-1691. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dmitry Suhol can be reached on 571-272-4430. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Dmitry Suhol/ Supervisory Patent Examiner, Art Unit 3716

11/24/2010 /A. K./ Examiner, Art Unit 3714